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# **CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on 11 April 2006

Wendy Scott

(Typed or Printed Name of Person Mailing Paper or Fee)

*Wendy Scott*

(Signature of Person Mailing Paper or Fee)

Attorney Docket No.: SUN-P9329-MEG

## **INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

**Inventor:** Marc Tremblay, et al.  
**Title:** SELECTIVELY MONITORING STORES TO SUPPORT TRANSACTIONAL PROGRAM EXECUTION  
**Filing Date:** 08 August 2003  
**Serial Number:** 10/637,167  
**Group Art Unit:** 2188  
**Examiner:** Patel, Kaushikkumar M.

Listed below or on an attached Form PTO-1449 is information known to applicant(s) and submitted pursuant to 37 C.F.R. §1.56. A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP §609.

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

— This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

- (1) It is being filed within 3 months of the application filing date  
— OR —  
— (2) It is being filed within 3 months of entry of a national stage  
— OR —  
— (3) It is being filed before the mail date of the first Office Action on the merits.

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— 37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; or (3) the mailing date of a first Office action on the merits, but before the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, then:

— a certification as specified in §1.97(e) is provided below; **or**

— a fee of \$240.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement. Please note that a check in the amount of \$240.00 is enclosed in payment.

X 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, but before payment of the issue fee, then:

A. a certification as specified in §1.97(e) is completed below; **and**

B. a petition under 37 C.F.R. §1.97(d) requesting consideration of this statement is submitted herewith; **and**


C. a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

X Statement under 37 C.F.R. §1.97(e) - I hereby certify that either: each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the information disclosure statement; or no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in section 1.56(c) more than three months prior to the filing of the information disclosure statement.

Signature:   
A. Richard Park (Reg. No. 41,241)

Date: 11 April 2006

Respectfully submitted,

By:   
A. Richard Park  
Reg. No. 41,241

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Date: 11 April 2006



**PATENT APPLICATION**  
**Attorney Docket No. SUN-P9329**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE PATENT APPLICATION OF )  
 ) Examiner: Patel, Kaushikkumar M.  
Marc Tremblay et al. )  
 ) Group Art Unit: 2188  
Serial No. 10/637,167 )  
 )  
Filing Date: 8 August 2003 )  
 )  
Title: SELECTIVELY MONITORING STORES TO )  
SUPPORT TRANSACTIONAL PROGRAM )  
EXECUTION )

**PETITION TO CONSIDER INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. § 1.97(d)**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

I hereby request consideration of the information disclosure statement mailed on 11 April 2006 for the above-identified patent application.

I hereby certify that either: each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the information disclosure statement; or no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in section 1.56(c) more than three months prior to the filing of the information disclosure statement.

The fee of \$180.00 under 37 C.F.R. § 1.17(p) for the petition is enclosed.

Respectfully submitted,

By: A. Richard Park  
A. Richard Park, Reg. No. 41,241

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Date: 11 April 2006

# INFORMATION DISCLOSURE CITATION

PTO-1449

ATTY. DOCKET NO.  
SUN-P9329APPLICATION NO.  
10/637,167APPLICANT  
Marc Tremblay, et al.FILING DATE  
08 August 2003GROUP ART UNIT  
2188**U.S. PATENT DOCUMENTS**

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,460,124	10-2002	Kagi et al.	711	163	
	2002/0087810	07-2002	Boatright et a.	711	145	
	2004/0186970	09-2004	Kekre et al.	711	62	
	2004/0162948	08-2004	Tremblay et al.	711	137	
	2003/066056	04-2003	Petersen et al.	717	137	
	6,578,088	06-2003	Singhal et al.	707	8	
	6,360,220	03-2002	Forin	707	8	
	5,940,827	08-1999	Hapner et al	707	8	

**FOREIGN PATENT DOCUMENTS**

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Publication entitled "Speculation-Based Techniques for Transactional Lock-Free Execution of Lock-Based Programs", by Ravi Rajwar, Online! 2002, XP002286237, Retrieved from the internet: URL: <a href="http://bbcr.uwaterloo.ca/{brecht/courses/856/readings-new/rajwar02speculationsbased.pdf">http://bbcr.uwaterloo.ca/{brecht/courses/856/readings-new/rajwar02speculationsbased.pdf</a>
	Publication entitled "Checkpoint Processing and Recovery: Towards Scalable Large Instruction Window Processors", by Haitham Akkary et al., Proceedings of the 36 <sup>th</sup> International Symposium on Microarchitecture, 2003, IEEE
	Publication entitled "Multiple Reservations and the Oklahoma Update", by Janice M. Stone et al., IEEE Parallel & Distributed Technology, November 1993, Pages 58-71.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				ATTY. DOCKET NO. SUN-P9329		APPLICATION NO. 10/637,167	
				APPLICANT Marc Tremblay, et al.			
				FILING DATE 08 August 2003		GROUP ART UNIT 2188	
<b>U.S. PATENT DOCUMENTS</b>							
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	5,428,761	06-1995	Herlihy et al.	711	130		
	5,835,764	11-1998	Platt et al.	718	101		
	5,742,785	04-1998	Stone et al.	712	217		
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Publication entitled "Improving the Throughput of Synchronization by Insertion of Delays", by Ravi Rajwar et al. Proceedings of the Sixth International Symposium on High-Performance Computer Architecture, 8-12 January 2000, Pages 168-179.						
	Publication entitled "Checkpoint Processing and Recovery: An Efficient, Scalable Alternative to Reorder Buffers" Haitham Akkary et al. IEEE Computer Society, November-December 2003, Pages 11-19.						
	Publication entitled "Multi-view Memory to Support OS Locking For Transaction Systems", P. Bodorik et al., IEEE, 1997, Pages 309-318.						
	Publication entitled "Indexing for Multiversion Locking: Alternatives and Performance Evaluation", Paul M. Bober et al, IEEE Transactions on Knowledge and Data Engineering, Vol. 9, No1, January-February 1997, Pages 68-84.						
	Publication entitled: "Transactional Execution: Toward Reliable, High-Performance Multithreading" by Ravi Rajwar et al. IEEE Computer Society, November-December 2003, Pages 117-125						
EXAMINER				DATE CONSIDERED			

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## SHEET 3 OF 3

<b>INFORMATION DISCLOSURE CITATION</b>  PTO-1449				ATTY. DOCKET NO. SUN-P9329		APPLICATION NO. 10/637,167	
				APPLICANT Marc Tremblay et al.			
				FILING DATE 08 August 2003		GROUP ART UNIT 2188	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
	6,021,480	03-2002	Petty	711	201		
	6,918,012	07-2005	Venkitakrishnan et al	711	150		
	5,701,432	12-1997	Wong et al.	711	130		
	5,974,438	10-1999	Neufeld	718	104		
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<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Publication: "Speculative Synchronization: Applying Thread-Level Speculation to Explicitly Parallel Applications" by Jose F. Martinez and Josep Torrellas, Dept. of Computer Science, University of Illinois at Urbana-Champaign, Urbana, IL 61801 USA, <a href="http://iacoma.cs.uiuc.edu">http://iacoma.cs.uiuc.edu</a> , XP-002285169, published in ASPLOS X, 10-2002, Pgs. 18-29						
	Publication: "Transactional Memory: Architectural Support for Lock-Free Data Structures" by Maurice Herlihy, Digital Equip. Corp. Cambridge Research Laboratory, Cambridge, MA 02139, <a href="mailto:herlihy@crl.dec.com">herlihy@crl.dec.com</a> and J. Eliot B. Moss, Dept. of Computer Science, University of Massachusetts, Amherst, MA 01003, <a href="mailto:moss@cs.umass.edu">moss@cs.umass.edu</a> , XP-000380375, published in Computer Architecture News, May 21, 1993, Pgs. 289-300						
	Publication: "Enhancing Software Reliability with Speculative Threads" by Jeffrey Oplinger and Monica S. Lam, Computer Systems, Laboratory, Stanford University, <a href="mailto:jeffop@stanford.edu">jeffop@stanford.edu</a> , XP-002285168 published in SPLOS X, 10-2202, Pgs. 184-196						
	Publication: "Transactional Memory: Architectural Support for Lock-Free Data Structures" by Maurice Herlihy, Digital Equip. Corp. Cambridge Research Laboratory, Cambridge, MA 02139, <a href="mailto:herlihy@crl.dec.com">herlihy@crl.dec.com</a> and J. Eliot B. Moss, Dept. of Computer Science, University of Massachusetts, Amherst, MA 01003, <a href="mailto:moss@cs.umass.edu">moss@cs.umass.edu</a> , XP-000380375, published in Computer Architecture News, May 21, 1993, Pgs. 289-300						
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